NLV-1001

Laser scanner

The NLV-1001, a low-cost fixed mount scanner, quickly and efficiently scans 1D barcodes for light industrial or retail applications. This fixed mount scanner uses a bi-directional scanning approach to achieve a scan rate of 100 sps.

Highlights

- Rapidly scans and decodes a wide variety of 1D barcodes
- Bi-directional scanning at 100 scans/second
- Complete unit with integrated decoder
- Durable – survives 0.75 m drop to concrete
- IP43 rating against dust and moisture
- Compact size and weight: 30 x 20 x 43.3 mm (WxHxD) and 30 grams
- Trigger modes: manual test button, multiple read, auto-trigger, hardware and software trigger
- Communication interface: USB or RS232
- Backed by a two year warranty

NLV-1001
Product Specifications

Operating indicators
Visual: 1 LED (red/green/orange)
Non-visual: Buzzer

Communication
RS232: DB9 connector with external power supply, without connector
USB: Ver. 1.1, HID/VCP, USB-A connector

Power
Voltage requirement: 5V ±10%
Current consumption: 85 mA (typical use), max. 150 mA

Barcode scanner optics
Light source: 650 nm visible laser diode
Scan method: Bi-directional scanning
Scan rate: 100 scans / second
Trigger mode: Manual, multiple read, auto-trigger, serial software trigger
Reading pitch angle: ± 35°
Reading skew angle: -50 to 8°, 8 to +50°
Reading tilt angle: ± 20°
Curvature: R≥15 mm (EAN8), R≥20 mm (EAN13)
Min. resolution at pcs 0.9: 0.127 mm / 5 mil
Min. pcs value: 0.45
Depth of field at code 39:
60 - 100 mm (0.127 mm) / 2.36 - 3.94 in (5 mil)
50 - 130 mm (0.15 mm) / 1.97 - 5.12 in (6 mil)
50 - 240 mm (0.25 mm) / 1.97 - 9.45 in (10 mil)
50 - 400 mm (0.5 mm) / 1.97 - 15.75 in (20 mil)
70 - 630 mm (1.0 mm) / 2.76 - 24.80 in (39 mil)

Supported symbologies
Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 Databar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSN-ISMN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
Postal code: Chinese Post, Korean Postal Authority code

Durability
Temperature in operation: -10 to 45 °C / 14 to 113 °F
Temperature in storage: -20 to 60 °C / -4 to 140 °F
Humidity in operation: 20 - 85% (non-condensing)
Humidity in storage: 20 - 90% (non-condensing)
Ambient light immunity: Fluorescent 3,000 lx max, Sunlight 50,000 lx max, Incandescent 3,000 lx max
Antistatic electricity: 10 kV (non-destructive)
Drop test: 0.75 m / 2.5 ft drop onto concrete surface
Protection rate: IP67

Physical
Dimensions (WxHxD): 30 x 20 x 43.3 mm / 1.18 x 0.79 x 1.70 in
Weight: Ca. 30 g / 1.1 oz (excl. cable)
Case: ABS, Black

Regulatory & Safety
CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II, IEC/EN60950-1, EN55022, EN55024

Items
Sold separately: Power supply 100-240V/0.5A, 50/60 Hz, 5V/2A (for RS232)

Models
Interface: RS232, USB

≡ OPTICON

www.opticon.com